

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

Evandro Carvalho, ADA

Suffolk County District Attorney's Office
By e-mail

June 3, 2011

Re: Comm. v. [REDACTED]

ADA Carvalho,
Please find below the material you requested regarding the case noted above.

- 1) the chemist's c.v.'s
- 2) the Evidence Office receipt to the Boston Police
- 3) the inventory control card
- 4) the Drug Powder Analysis Form
- 5) the gas chromatography/mass spectrometry (gc/ms) data

I was the custodial chemist for this case, responsible for the chain of custody, weights and preliminary analysis. Ms. Khan was the gc/ms chemist performing the confirmatory tests on the "mass spec." If you need further clarification of this material, call me directly at (617) 983-6627.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Lawler".

Michael Lawler
Senior Chemist

Cc: Charles Salemi, Annie Khan

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits.

2005-present lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court

CDC course in cell culture

CDC course in antibiotic resistance

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

Journal Publications

Screening, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S., Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

Genetic Screening, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., *To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?*

The Journal of Pediatrics, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M., Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

DRUG RECEIPT

CC # [REDACTED]
BOOK # 30
PAGE # 168
DESTRUCTION # _____

District/Unit E13 / DCU
Name & Rank of Arresting Officer P.O. Samaras ID# 103784

DEFENDANT'S NAME	ADDRESS	CITY	STATE
[REDACTED]	[REDACTED]	<u>Roxbury</u>	<u>MA</u>

DESCRIPTION OF ITEMS SUBMITTED	GROSS QUANTITY	LAB USE ONLY	
		GROSS WEIGHT	ANALYSIS NUMBER
<u>CRACK COCAINE</u>	<u>3 p/B</u>	<u>2.83g</u>	[REDACTED]

To be completed by ECU personnel only

Name and Rank of Submitting Officer [Signature] ID# 9320

Received by [Signature] Date 3-31-11

ECU Control # _____

No. [REDACTED]

Date Analyzed: 6-28-11

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 3 Cont: pb

Date Rec'd: 03/31/2011

No. Analyzed: 1

Gross Wt.: 2.83g

Net Weight: 0.20g

Tests: 2 ASD 9/11/11

Prelim:

cocaine (K)

Findings: Cocaine

GCMSD
G0425115

DRUG POWDER ANALYSIS FORM

4-28-11

SAMPLE # [REDACTED] AGENCY Boston ANALYST MM
 No. of samples tested: 1 Botticello Evidence Wt. 2.83

PHYSICAL DESCRIPTION:

3pb w/ sub

Gross Wt (): 0.8019
 Gross Wt (): _____
 Pkg. Wt: _____
 Net Wt: 0.2026

OHAUS 2334 4-22-11
 20g = 19.9998g
 10g = 9.9998g
 5g = 4.9998g
 1g = 0.9998g

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate (+)
 Marquis (-)
 Froehde's (-)
 Mecke's (-)

Microcrystalline Tests

Gold Chloride (+)
 TLTA (+)

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS _____
 DATE _____

GC/MS CONFIRMATORY TEST

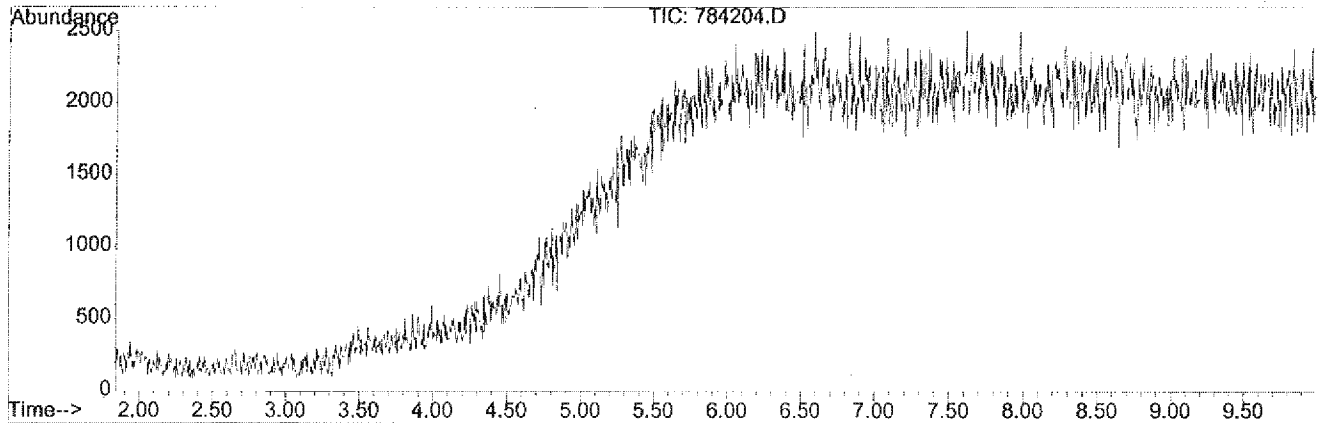
RESULTS cocaine
 MS OPERATOR ASD
 DATE 4-28-11

Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784204.D
Operator : ASD
Date Acquired : 25 Apr 2011 9:55
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE

✓ ASD
5-31-11



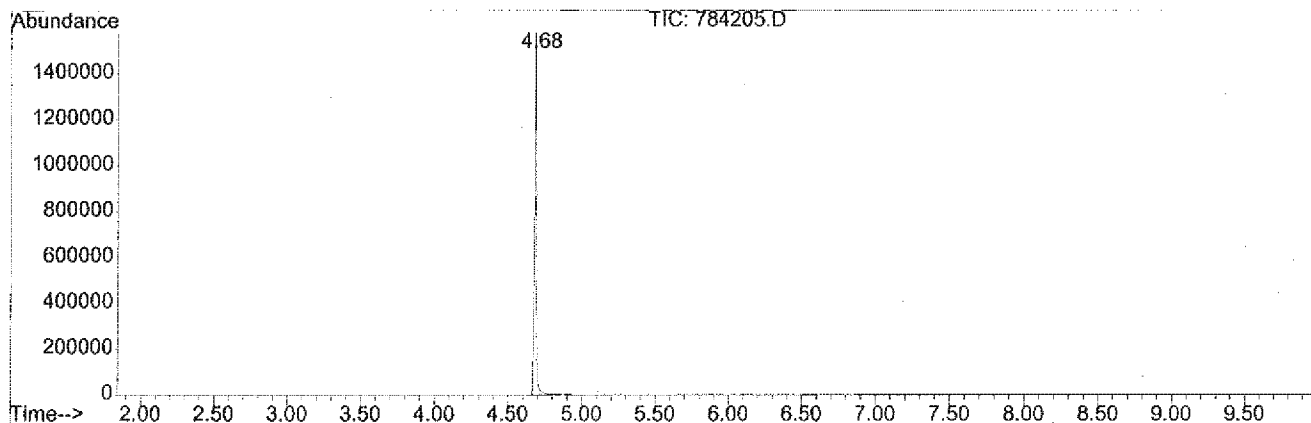
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784205.D
 Operator : ASD
 Date Acquired : 25 Apr 2011 10:07
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.680	1418635	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

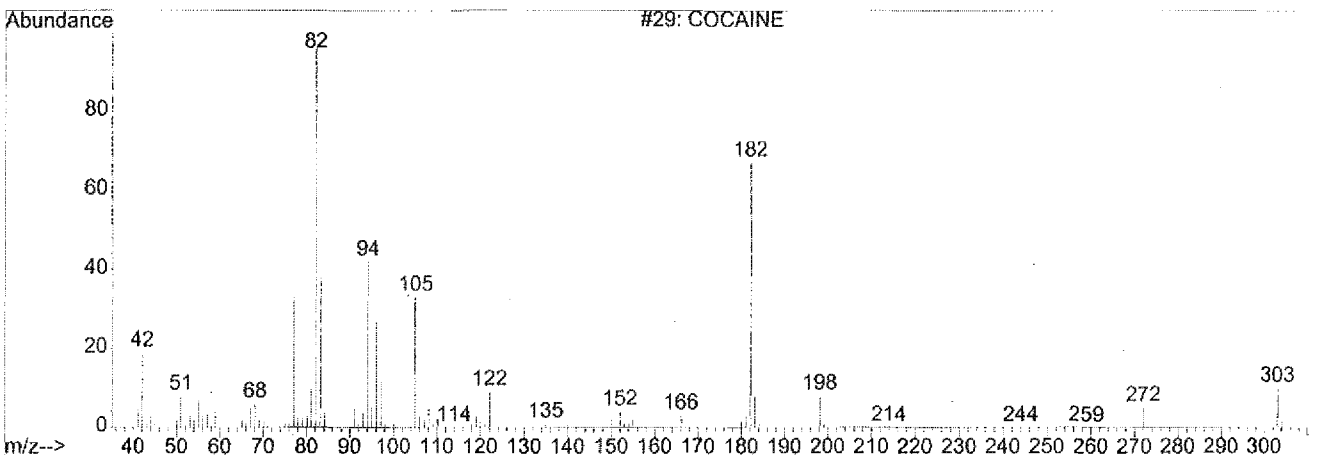
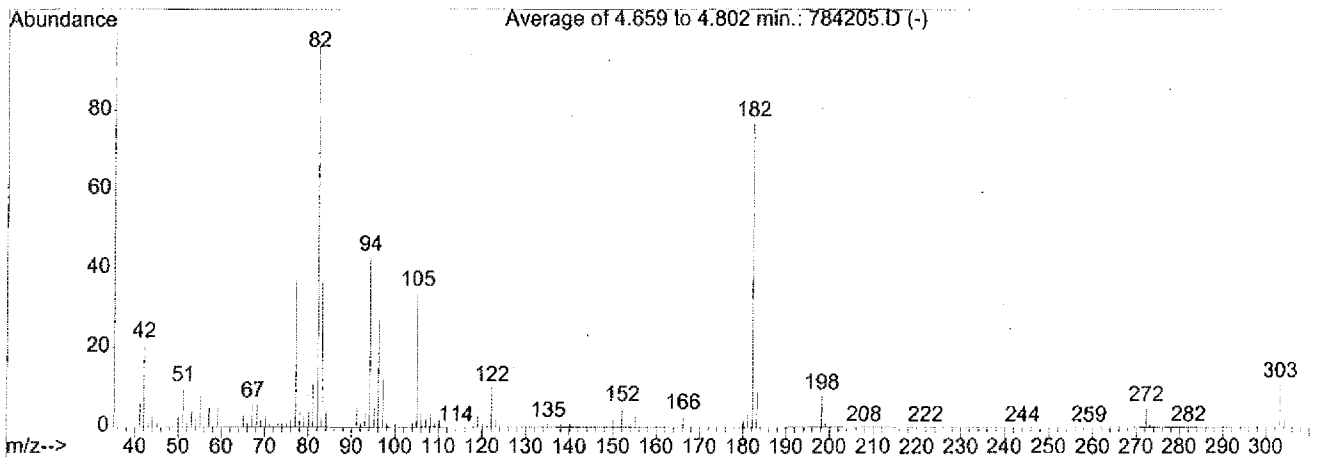
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File Name       : F:\SYSTEM7\04_25_11\784205.D
Operator        : ASD
Date Acquired   : 25 Apr 2011  10:07
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 5
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

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Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

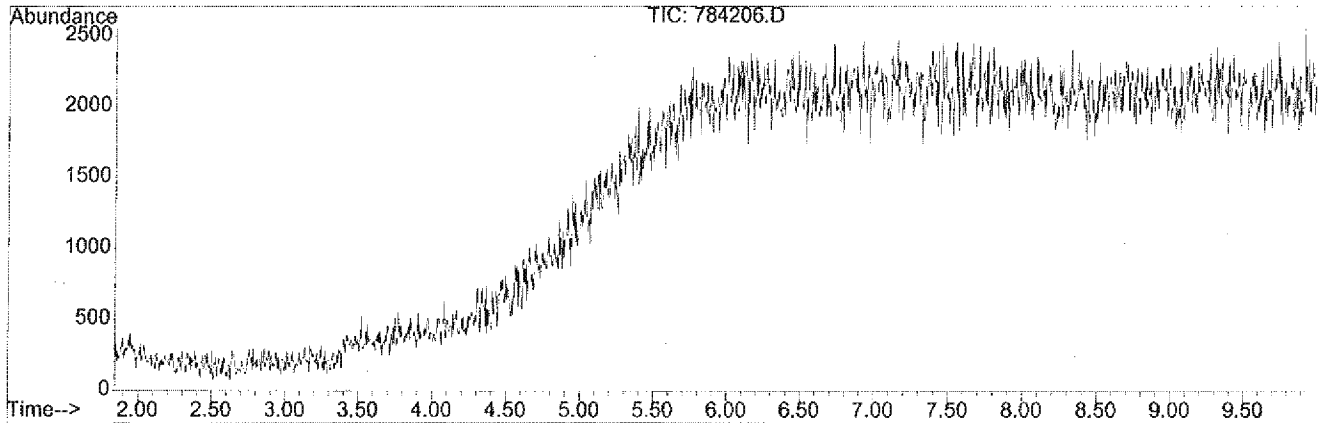
PK#	RT	Library/ID	CAS#	Qual
1	4.68	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784206.D
Operator : ASD
Date Acquired : 25 Apr 2011 10:20
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



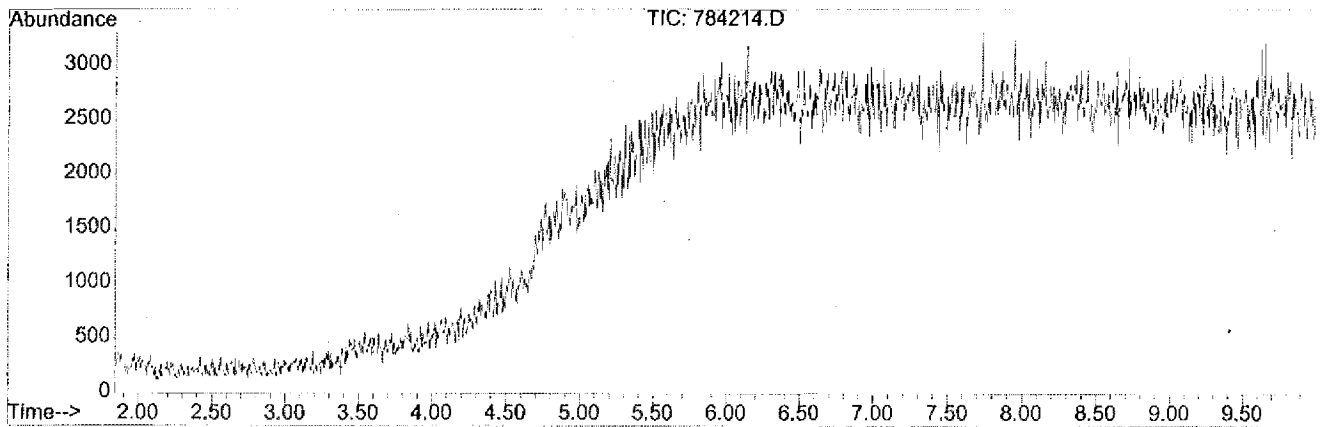
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784214.D
Operator : ASD
Date Acquired : 25 Apr 2011 12:01
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



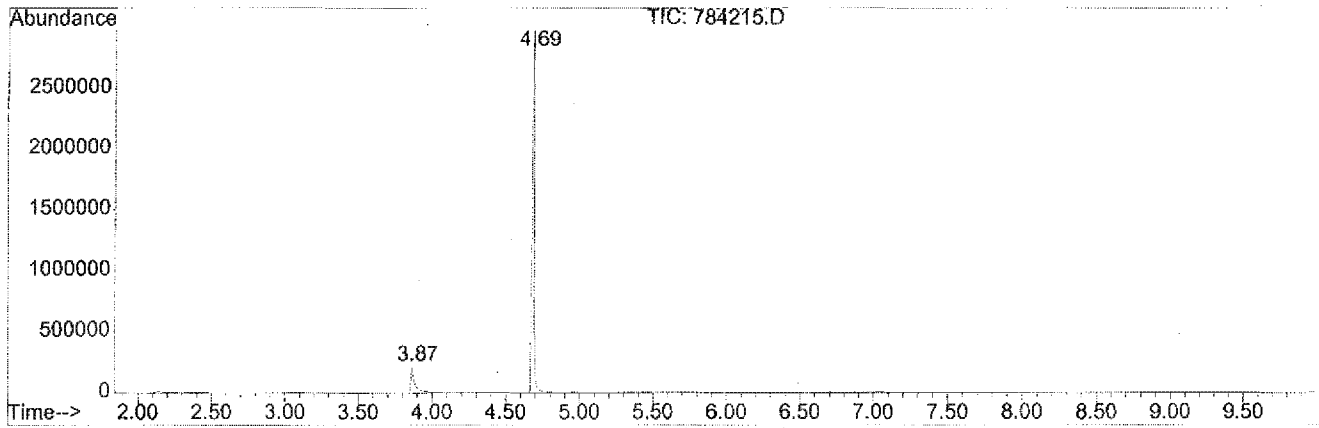
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784215.D
Operator : ASD
Date Acquired : 25 Apr 2011 12:13
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 15
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.865	392533	11.23	12.65
4.686	3102138	88.77	100.00

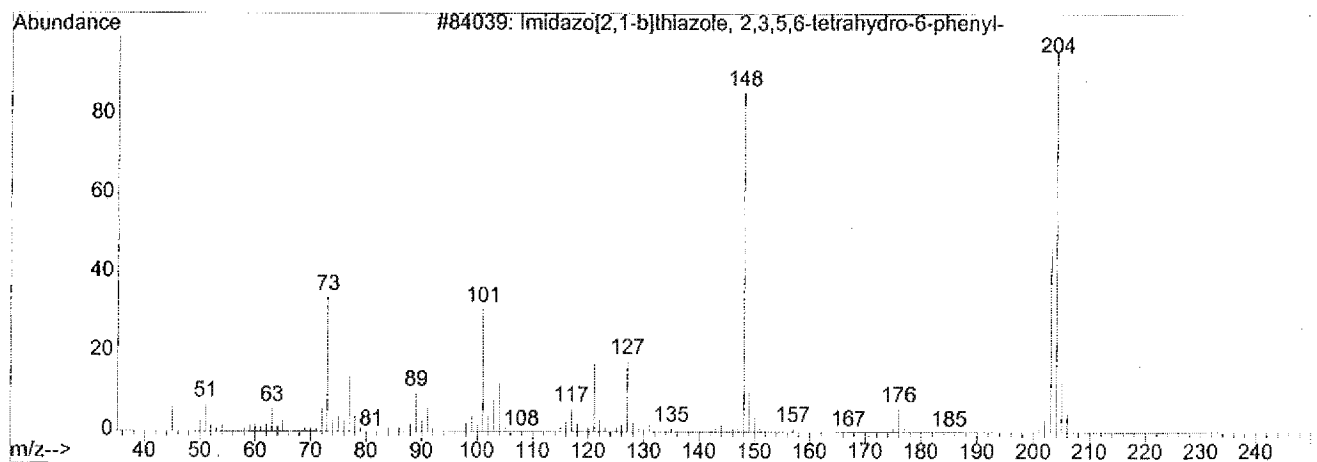
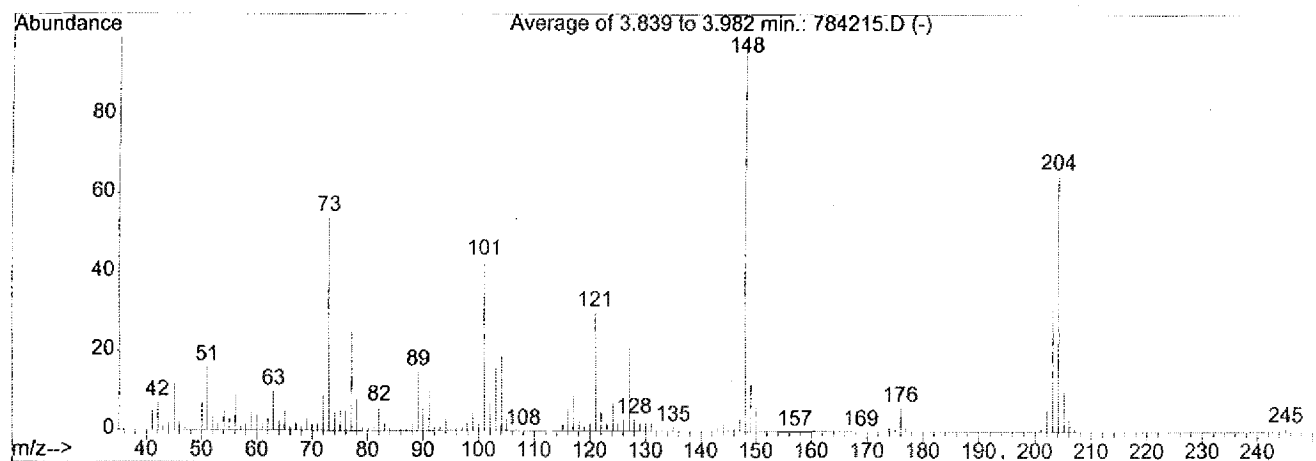
Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784215.D
 Operator : ASD
 Date Acquired : 25 Apr 2011 12:13
 Sample Name : XXXXXXXXXX
 Submitted by : MGL
 Vial Number : 15
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	3.87	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



Area Percent / Library Search Report

Information from Data File:

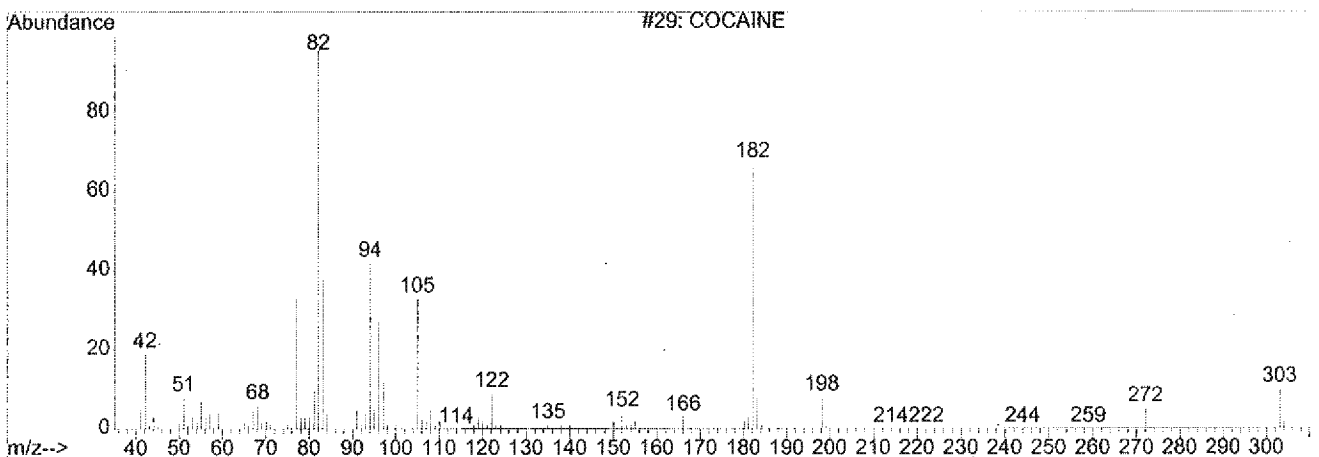
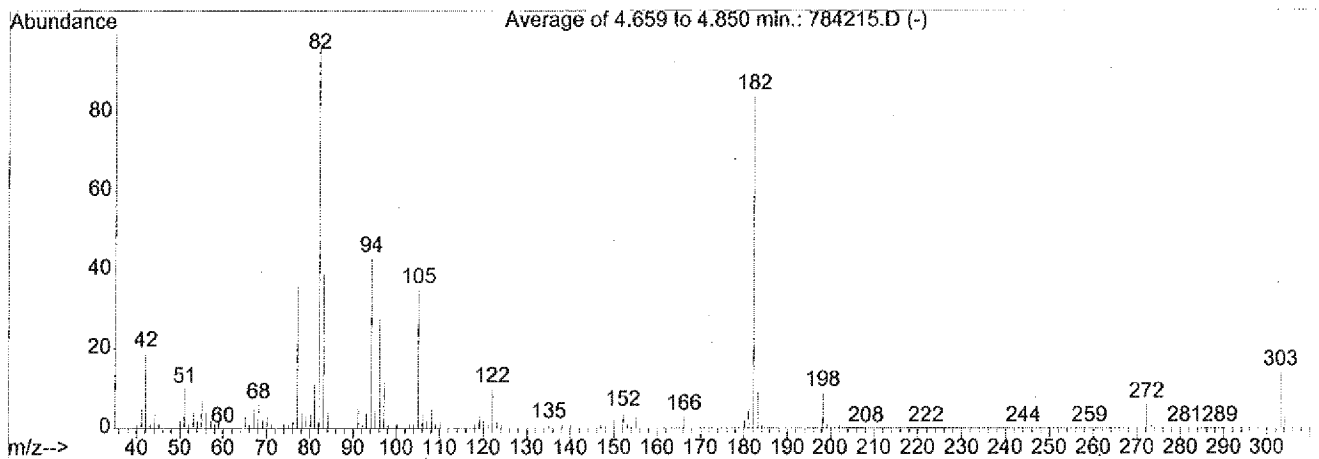
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File Name       : F:\SYSTEM7\04_25_11\784215.D
Operator        : ASD
Date Acquired   : 25 Apr 2011  12:13
Sample Name     : ██████████
Submitted by    : MGL
Vial Number     : 15
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

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Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

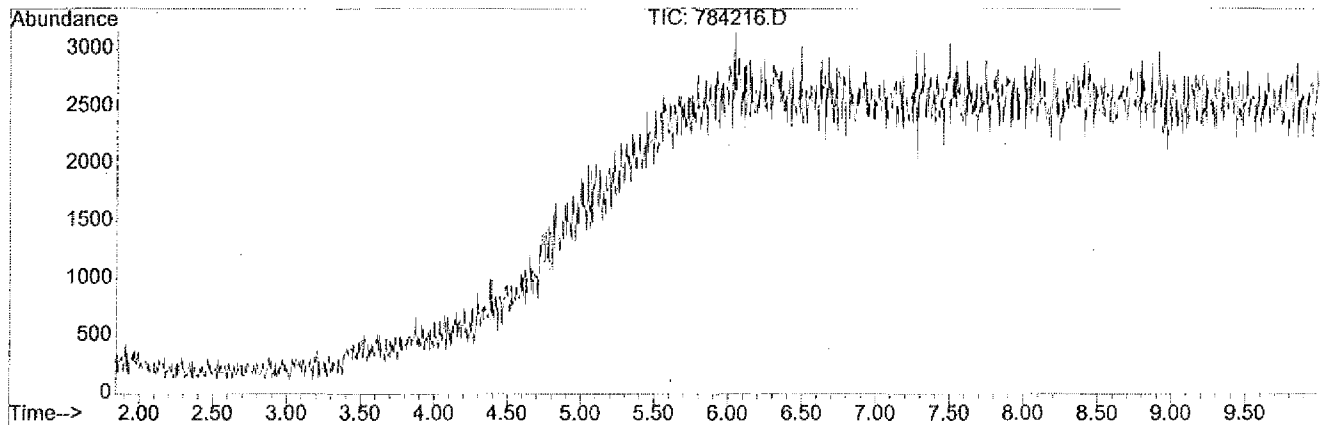
PK#	RT	Library/ID	CAS#	Qual
2	4.69	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784216.D
Operator : ASD
Date Acquired : 25 Apr 2011 12:26
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



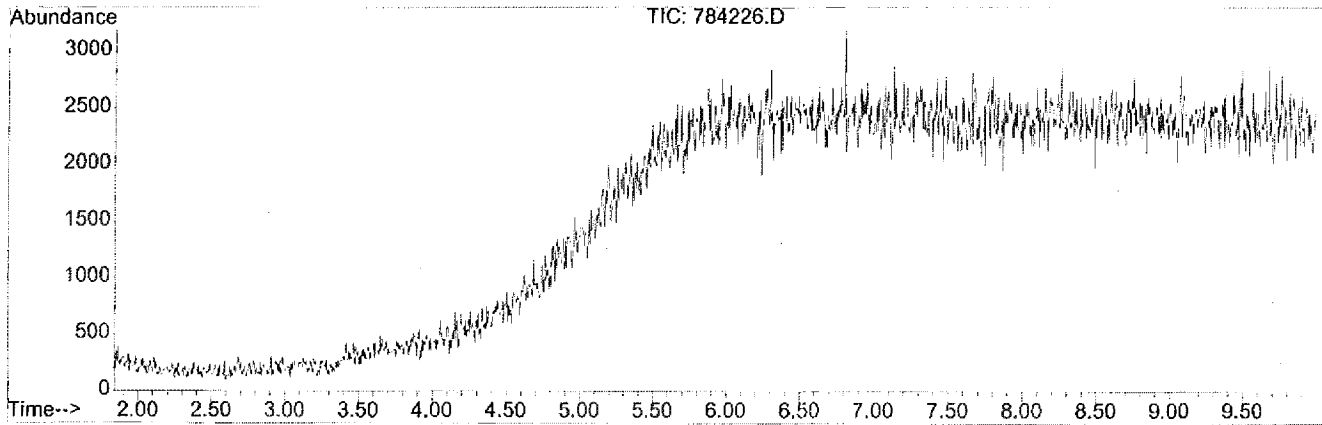
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784226.D
Operator : ASD
Date Acquired : 25 Apr 2011 14:33
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



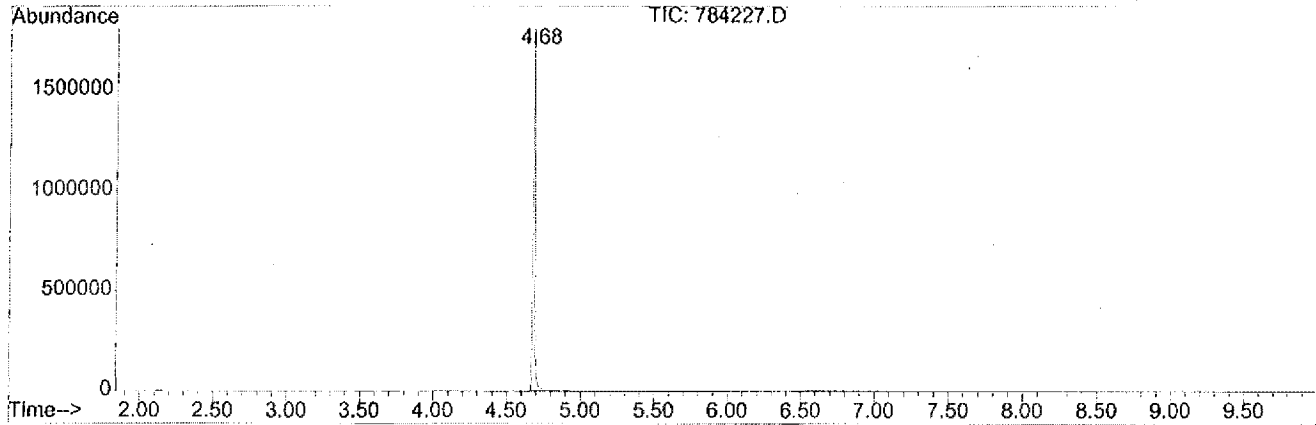
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784227.D
 Operator : ASD
 Date Acquired : 25 Apr 2011 14:45
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.680	1662607	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

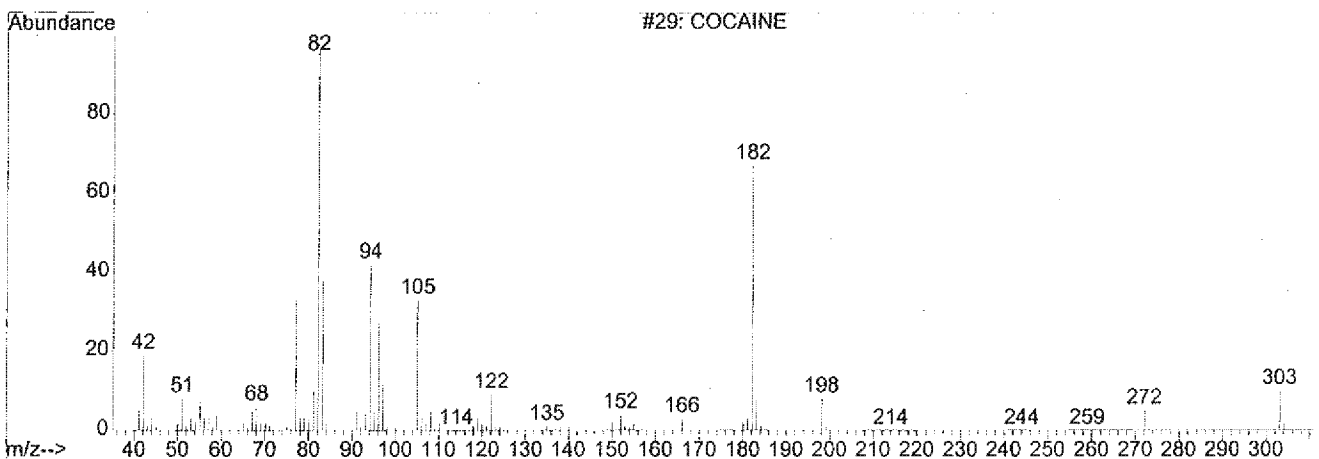
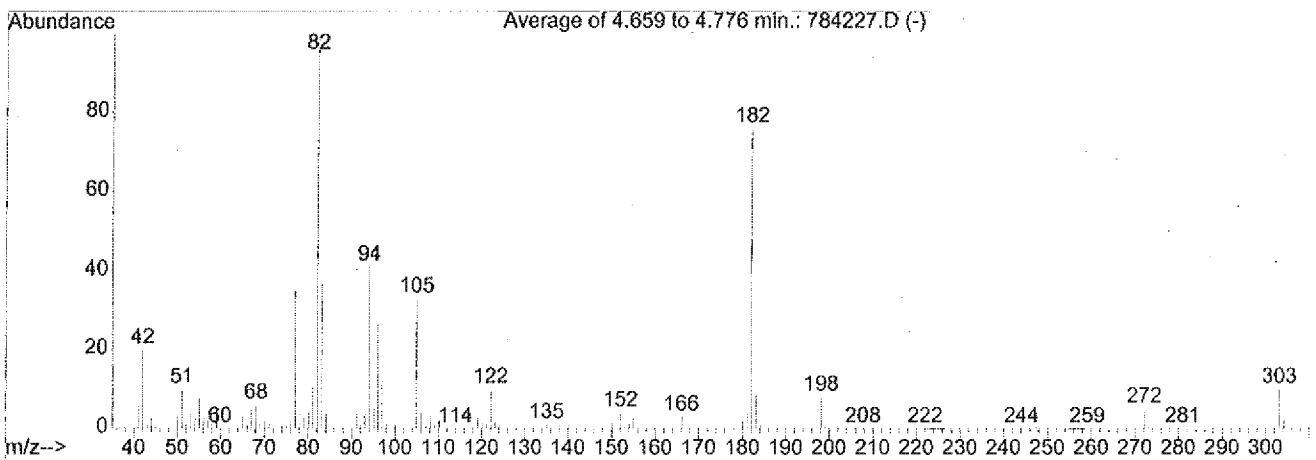
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File Name       : F:\SYSTEM7\04_25_11\784227.D
Operator        : ASD
Date Acquired   : 25 Apr 2011  14:45
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 5
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

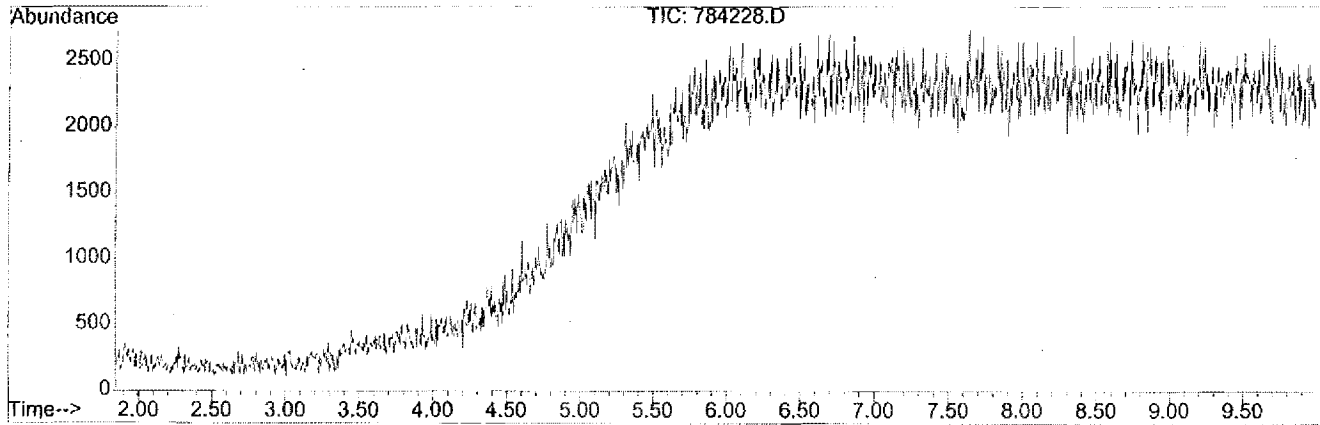
PK#	RT	Library/ID	CAS#	Qual
1	4.68	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\04_25_11\784228.D
Operator : ASD
Date Acquired : 25 Apr 2011 14:58
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Last page.....no further data